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OM nucleic - nucleic search, using sw model

Run on: October 14, 2005, 20:43:00 ; Search time 191 Seconds  
(without alignments)  
6673.610 Million cell updates/sec

Title: US-09-721-183-5  
Perfect score: 779  
Sequence: 1 Gtatactctttttaatac.....gaaactgtcgaagaacaaaa 779

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*

- 1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*
- 2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*
- 3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*
- 4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*
- 5: /cgn2\_6/ptodata/1/ina/PTCUS\_COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	727	93.3	2030	4	US-09-451-739H-15
2	725.8	93.2	2232	4	US-09-620-405B-491
3	725.8	93.2	2232	4	US-09-834-759-491
4	725.8	93.2	3288	4	US-09-620-405B-490
5	725.8	93.2	3288	4	US-09-834-759-490
6	725.8	93.2	3681	4	US-09-620-405B-463
7	725.8	93.2	3681	4	US-09-433-826B-463
8	725.8	93.2	3681	4	US-09-604-287A-463
9	725.8	93.2	3681	4	US-09-834-759-463
10	725.8	93.2	3681	4	US-09-590-751A-463
11	725.8	93.2	3681	4	US-09-551-621-463
12	725.8	93.2	3865	4	US-09-620-405B-474
13	725.8	93.2	3865	4	US-09-604-287A-474
14	725.8	93.2	3865	4	US-09-834-759-474
15	725.8	93.2	3865	4	US-09-590-751A-474
16	725.8	93.2	3865	4	US-09-551-621-474
17	723.8	92.9	1337	4	US-09-620-405B-467
18	723.8	92.9	1337	4	US-09-433-826B-467
19	723.8	92.9	1337	4	US-09-604-287A-467
20	723.8	92.9	1337	4	US-09-834-759-467
21	723.8	92.9	1337	4	US-09-590-751A-467
22	723.8	92.9	1337	4	US-09-551-621-467
23	723.8	92.9	2307	4	US-09-620-405B-468
24	723.8	92.9	2307	4	US-09-433-826B-468
25	723.8	92.9	2307	4	US-09-604-287A-468
26	723.8	92.9	2307	4	US-09-834-759-468
27	723.8	92.9	2307	4	US-09-590-751A-468

ALIGNMENTS

RESULT 1

US-09-451-739H-15  
; Sequence 15, Application US/09451739H  
; Patent No. 6774226  
; GENERAL INFORMATION:  
; APPLICANT: Jager, Dirk  
; APPLICANT: Scanlan, Matthew  
; APPLICANT: Gure, Ali  
; APPLICANT: Jager, Elke  
; APPLICANT: Knuth, Alexander  
; APPLICANT: Old, Lloyd  
; APPLICANT: Chen, Yao-tseng  
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated Antigen  
; TITLE OF INVENTION: the Antigens per se, and Uses Thereof  
; FILE REFERENCE: LUD 5615  
; CURRENT APPLICATION NUMBER: US/09/451.739H  
; CURRENT FILING DATE: 1999-11-30  
; NUMBER OF SEQ ID NOS: 19  
; SEQ ID NO 15  
; LENGTH: 2030  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1628, 1752, 1758, 1769, 1789, 1873, 1908, 1915, 1933, 1970,  
; LOCATION: 1976,2022  
; OTHER INFORMATION: unknown nucleotides at positions 1628, 1752, 1758,  
; OTHER INFORMATION: 1769, 1789, 1873, 1908, 1915, 1933, 1970, 1976, 2022  
US-09-451-739H-15

Query Match 93.3%; Score 727; DB 4; Length 2030;  
Best Local Similarity 98.7%; Pred. No. 1.3e-185;  
Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy	36	CCATTTGACCTGCCATTGCAATGCAAAAGTCTGTTCCAAATATAAGCCTTGAATTTGAAGA	95
Db	124	CCTTCGAGCTGCCATTGGAATGCAAAAGTCTGTTCCAAATATAAGCCTTGAATTTGAAGA	183
Qy	96	ATGAACAAACATTGAGAGCAGATGAGATATCTCCCATCAGAAATCCAAACAAAGGACTATG	155
Db	184	ATGAACAAACATTGAGAGCAGATGAGATATCTCCCATCAGAAATCCAAACAAAGGACTATG	243
Qy	156	ARGAAGTCTTGGGATTTCTGAGAGTCTCTGTGAGACTGTTTCACAGAGGATCTGTGCTT	215
Db	244	AAGAAGTCTTGGGATTTCTGAGAGTCTCTGTGAGACTGTTTCACAGAGGATCTGTGCTT	303
Qy	216	TACCAAGGCTACACATCAAAAAGAAATAGATAAAATGAAAAATTAGAAGGCTCTC	275
Db	304	TACCAAGGCTACACATCAAAAAGAAATAGATAAAATGAAAAATTAGAAGGCTCTC	363





; APPLICANT: Henderson, Robert A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.470C9  
; CURRENT APPLICATION NUMBER: US/09/834,759  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 490  
; LENGTH: 3288  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-834-759-490

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Query Match          93.2%; Score 725.8; DB 4; Length 3288;
Best Local Similarity 98.3%; Pred. No. 3.2e-185;
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA 95
Db 1373 CTTTCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA 1432

QY 96 ATGAACAAACATTGAGAGCAGATGAGATACATCCCATCAGAAATCCAAACAAAGGACTATG 155
Db 1433 ATGAACAAACATTGAGAGCAGATGAGATACATCCCATCAGAAATCCAAACAAAGGACTATG 1492

QY 156 AAGAAAGTCTTGGGATCTGAGAGTCTGTGAGACTGTTTCACAGAGGATGTGTGT 215
Db 1493 AAGAAAGTCTTGGGATCTGAGAGTCTGTGAGACTGTTTCACAGAGGATGTGTGT 1552

QY 216 TACCACAAAGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAAAGGCTCTC 275
Db 1553 TACCACAAAGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAAAGGCTCTC 1612

QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTGTCTATTCCAACTAAAG 335
Db 1613 CTGATAATGATGGTCTTCTGAAGGCTCCCTGCGGAATGAAAGTGTCTATTCCAACTAAAG 1672

QY 336 CTTTGAATTTGATGACATGCAAACTTTCAAGCAGAGCCTCCCGAGAGCCATCTGCCT 395
Db 1673 CTTTGAATTTGATGACATGCAAACTTTCAAGCAGAGCCTCCCGAGAGCCATCTGCCT 1732

QY 396 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGAATG 455
Db 1733 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGAATG 1792

QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTTCAGAAATCAAAACAAAGAGGTTGAAG 515
Db 1793 AACAAACATTGAGAGCAGATCAGATGTTCCCTTTCAGAAATCAAAACAAAGAGGTTGAAG 1852

QY 516 AAAATCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 575
Db 1853 AAAATCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 1912

QY 576 CCAAGGCTACACATCAAAAGAAATGGATAAAATAAGTGGAAAAATTAGAAGATTCAACTA 635
Db 1913 CCAAGGCTACACATCAAAAGAAATGGATAAAATAAGTGGAAAAATTAGAAGATTCAACTA 1972

QY 636 GCCTATCAAAATCTTGGATACAGTTCATTCTTTGTAAGAGCAAGGAACTTCAAAAAG 695
Db 1973 GCCTATCAAAATCTTGGATACAGTTCATTCTTTGTAAGAGCAAGGAACTTCAAAAAG 2032

QY 696 ATCACTGTGAACAAAGTACAGGAAAAATGGAAACAAATGGAACAAATGGAAGGTTTGTGTACTGA 755
Db 2033 ATCACTGTGAACAAAGTACAGGAAAAATGGAAACAAATGGAACAAATGGAAGGTTTGTGTACTGA 2092

QY 756 AAAAGAAAATCTGTGAGAACAAA 778
Db 2093 AAAAGAAAATCTGTGAGAACAAA 2115
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RESULT 6  
US-09-620-405B-463

; Sequence 463, Application US/09620405B  
; Patent No. 6528054  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yugu  
; APPLICANT: Dillon, Devin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.470C8  
; CURRENT APPLICATION NUMBER: US/09/620,405B  
; CURRENT FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 495  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 463  
; LENGTH: 3681  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-620-405B-463

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Query Match          93.2%; Score 725.8; DB 4; Length 3681;
Best Local Similarity 98.3%; Pred. No. 3.4e-185;
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA 95
Db 1645 CTTTCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA 1704

QY 96 ATGAACAAACATTGAGAGCAGATGAGATACATCCCATCAGAAATCCAAACAAAGGACTATG 155
Db 1705 ATGAACAAACATTGAGAGCAGATGAGATACATCCCATCAGAAATCCAAACAAAGGACTATG 1764

QY 156 AAGAAAGTCTTGGGATCTGAGAGTCTGTGAGACTGTTTCACAGAGGATGTGTGT 215
Db 1765 AAGAAAGTCTTGGGATCTGAGAGTCTGTGAGACTGTTTCACAGAGGATGTGTGT 1824

QY 216 TACCACAAAGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAAAGGCTCTC 275
Db 1825 TACCACAAAGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAAAGGCTCTC 1884

QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTGTCTATTCCAACTAAAG 335
Db 1885 CTGATAATGATGGTCTTCTGAAGGCTCCCTGCGGAATGAAAGTGTCTATTCCAACTAAAG 1944

QY 336 CTTTGAATTTGATGACATGCAAACTTTCAAGCAGAGCCTCCCGAGAGCCATCTGCCT 395
Db 1945 CTTTGAATTTGATGACATGCAAACTTTCAAGCAGAGCCTCCCGAGAGCCATCTGCCT 2004

QY 396 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGAATG 455
Db 2005 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGAATG 2064

QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTTCAGAAATCAAAACAAAGAGGTTGAAG 515
Db 2065 AACAAACATTGAGAGCAGATCAGATGTTCCCTTTCAGAAATCAAAACAAAGAGGTTGAAG 2124

QY 516 AAAATCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 575
Db 2125 AAAATCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 2184

QY 576 CCAAGGCTACACATCAAAAGAAATGGATAAAATAAGTGGAAAAATTAGAAGATTCAACTA 635
Db 2185 CCAAGGCTACACATCAAAAGAAATGGATAAAATAAGTGGAAAAATTAGAAGATTCAACTA 2244

QY 636 GCCTATCAAAATCTTGGATACAGTTCATTCTTTGTAAGAGCAAGGAACTTCAAAAAG 695
Db 2245 GCCTATCAAAATCTTGGATACAGTTCATTCTTTGTAAGAGCAAGGAACTTCAAAAAG 2304

QY 696 ATCACTGTGAACAAAGTACAGGAAAAATGGAAACAAATGGAACAAATGGAAGGTTTGTGTACTGA 755
Db 2305 ATCACTGTGAACAAAGTACAGGAAAAATGGAAACAAATGGAACAAATGGAAGGTTTGTGTACTGA 2364
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QY 756 AAAAGAACTGTCAGAAGCAAAA 778
Db 2365 AAAAGAACTGTCAGAAGCAAAA 2387

RESULT 7
US-09-433-826B-463
; Sequence 463, Application US/09433826B
; Patent No. 6579973
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqui
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.470C4
; CURRENT APPLICATION NUMBER: US/09/433,826B
; CURRENT FILING DATE: 1999-11-03
; NUMBER OF SEQ ID NOS: 474
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 463
; LENGTH: 3681
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-433-826B-463

Query Match 93.2%; Score 725.8; DB 4; Length 3681;
Best Local Similarity 98.3%; Pred. No. 3.4e-185;
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTAGCCTGCCATTGAAATGCAAAAGTCGTTCCAAATAAAGCCTTGGAAATGAAGA 95
Db 1645 CTTTCGAGCCTGCCATTGAAATGCAAAAGTCGTTCCAAATAAAGCCTTGGAAATGAAGA 1704

QY 96 ATGAACAACATTTGAGAGCAGATGAGATACCTCCCATCAGAAATCCAAACAAAGAGACTATG 155
Db 1705 ATGAACAACATTTGAGAGCAGATGAGATACCTCCCATCAGAAATCCAAACAAAGAGACTATG 1764

QY 156 AAGAAAGTCTTGGGATTCAGAGTCTCTGTGAGACTGTTTTCACAGAAGGATGTGTGT 215
Db 1765 AAGAAAGTCTTGGGATTCAGAGTCTCTGTGAGACTGTTTTCACAGAAGGATGTGTGT 1824

QY 216 TACCAAGGCTACACATCAAAAGAAATAGATAAAATGAAATGAAATGAAAGGCTCTC 275
Db 1825 TACCAAGGCTACACATCAAAAGAAATAGATAAAATGAAATGAAAGGCTCTC 1884

QY 276 CTGTTAAAGATGCTTCTGAGAGCTAACTCGGGAATGAAAGTCTTCTATTCACAACTAAAG 335
Db 1885 CTGTTAAAGATGCTTCTGAGAGCTAACTCGGGAATGAAAGTCTTCTATTCACAACTAAAG 1944

QY 336 CTTTAGAATTCATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 395
Db 1945 CTTTAGAATTCATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 2004

QY 396 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAAGATG 455
Db 2005 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAAGATG 2064

QY 456 AACAAACATTCAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 515
Db 2065 AACAAACATTCAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 2124

QY 516 AAAATTCCTGGGATTCAGAGTCTCCGAGAGCTGTTTTCACAGAAGGATGTGTGTAC 575
Db 2125 AAAATTCCTGGGATTCAGAGTCTCCGAGAGCTGTTTTCACAGAAGGATGTGTGTAC 2184

QY 576 CCAAGGCTACATCAAAAGAAATGGAATAAATAGTGGAAATTTAGAGATTCAACTA 635
Db 2185 CCAAGGCTACATCAAAAGAAATGGAATAAATAGTGGAAATTTAGAGATTCAACTA 2244
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QY 636 GCCTATCAAAATCTTGGATACAGTTCATTCTTGTGAAAGCAAGGAACTTCAAAAAG 695
Db 2245 GCCTATCAAAATCTTGGATACAGTTCATTCTTGTGAAAGCAAGGAACTTCAAAAAG 2304

QY 696 ATCACTGTGAACAACGTCACAGAAATAATGGAACAATAATGAAAGAGTTTGTGTACTGA 755
Db 2305 ATCACTGTGAACAACGTCACAGAAATAATGGAACAATAATGAAAGAGTTTGTGTACTGA 2364

QY 756 AAAAGAACTGTCAGAAGCAAAA 778
Db 2365 AAAAGAACTGTCAGAAGCAAAA 2387

RESULT 8
US-09-604-287A-463
; Sequence 463, Application US/09604287A
; Patent No. 6586572
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqui
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C7
; CURRENT APPLICATION NUMBER: US/09/604,287A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 489
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 463
; LENGTH: 3681
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-604-287A-463

Query Match 93.2%; Score 725.8; DB 4; Length 3681;
Best Local Similarity 98.3%; Pred. No. 3.4e-185;
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTAGCCTGCCATTGAAATGCAAAAGTCGTTCCAAATAAAGCCTTGGAAATGAAGA 95
Db 1645 CTTTCGAGCCTGCCATTGAAATGCAAAAGTCGTTCCAAATAAAGCCTTGGAAATGAAGA 1704

QY 96 ATGAACAACATTTGAGAGCAGATGAGATACCTCCCATCAGAAATCCAAACAAAGAGACTATG 155
Db 1705 ATGAACAACATTTGAGAGCAGATGAGATACCTCCCATCAGAAATCCAAACAAAGAGACTATG 1764

QY 156 AAGAAAGTCTTGGGATTCAGAGTCTCTGTGAGACTGTTTTCACAGAAGGATGTGTGT 215
Db 1765 AAGAAAGTCTTGGGATTCAGAGTCTCTGTGAGACTGTTTTCACAGAAGGATGTGTGT 1824

QY 216 TACCAAGGCTACACATCAAAAGAAATAGATAAAATGAAATGAAATGAAAGGCTCTC 275
Db 1825 TACCAAGGCTACACATCAAAAGAAATAGATAAAATGAAATGAAAGGCTCTC 1884

QY 276 CTGTTAAAGATGCTTCTGAGAGCTAACTCGGGAATGAAAGTCTTCTATTCACAACTAAAG 335
Db 1885 CTGTTAAAGATGCTTCTGAGAGCTAACTCGGGAATGAAAGTCTTCTATTCACAACTAAAG 1944

QY 336 CTTTAGAATTCATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 395
Db 1945 CTTTAGAATTCATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 2004

QY 396 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAAGATG 455
Db 2005 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAAGATG 2064

QY 456 AACAAACATTCAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 515
Db 2065 AACAAACATTCAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 2124
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Best Local Similarity 98.3%; Pred. No. 3.5e-185;
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCAATTAGCCTGCCATTGAAATGCAAAAGCTGTGTTCCAAATAAAGCCTTGGAAATTGAAGA 95
Db 1645 CTTTCGAGCCTGCCATTGAAATGCAAAAGCTGTGTTCCAAATAAAGCCTTGGAAATTGAAGA 1704

QY 96 ATGAACAAACATTGGAGACAGATGAGATACCTCCCATCAGAAATCCAAACAAAAGGACTATG 155
Db 1705 ATGAACAAACATTGGAGACAGATGAGATACCTCCCATCAGAAATCCAAACAAAAGGACTATG 1764

QY 156 AAGAAGATTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCACAGAGGATGTGTGTT 215
Db 1765 AAGAAGATTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCACAGAGGATGTGTGTT 1824

QY 216 TACCCAAGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAGGGTCTC 275
Db 1825 TACCCAAGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAGGGTCTC 1884

QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTCTTATTCCTCAACTAAAG 335
Db 1885 CTGATAATGATGGTCTTCTGAAGGCTCCCTGCAGATGAAAGTCTTATTCCTCAACTAAAG 1944

QY 336 CTTTGAATTTGATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 395
Db 1945 CTTTGAATTTGATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 2004

QY 396 TCGAGCTGCCATTGAAATGCAAAAGCTGTGTTCCAAATAAAGCCTTGGAAATTGAAGATG 455
Db 2005 TCGAGCTGCCATTGAAATGCAAAAGCTGTGTTCCAAATAAAGCCTTGGAAATTGAAGATG 2064

QY 456 AACAACATTGGAGCAGATCAGATGTTCCCTTTCAGAAATCAAAACAAAAGAGGTTGAAG 515
Db 2065 AACAACATTGGAGCAGATCAGATGTTCCCTTTCAGAAATCAAAACAAAAGAGGTTGAAG 2124

QY 516 AAAATTCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 575
Db 2125 AAAATTCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 2184

QY 576 CCAAGCTACACATCAAAAGAAATGGAATAAATAGTGGAAATTTAGAGGATCAACTA 635
Db 2185 CCAAGCTACACATCAAAAGAAATGGAATAAATAGTGGAAATTTAGAGGATCAACTA 2244

QY 636 GCCTATCAAAATCTTGGATACAGTTCATTCTTGTGAAAGCAAGGAACTTCAAAAAG 695
Db 2245 GCCTATCAAAATCTTGGATACAGTTCATTCTTGTGAAAGCAAGGAACTTCAAAAAG 2304

QY 696 ATCACTGTGAACAACGTACAGAAATAATGGAAACAAATGAAAGAGTTTGTGTACTGA 755
Db 2305 ATCACTGTGAACAACGTACAGAAATAATGGAAACAAATGAAAGAGTTTGTGTACTGA 2364

QY 756 AAAAGAAACTGTCAGAGCAAAA 778
Db 2365 AAAAGAAACTGTCAGAGCAAAA 2387
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RESULT 13
US-09-604-287A-474
; Sequence 474, Application US/09604287A
; Patent No. 6586572
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C7
; CURRENT APPLICATION NUMBER: US/09/604,287A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 489
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 474
; LENGTH: 3865
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2448)...(2631)
; OTHER INFORMATION: 184 bp insert of B726P splice form
US-09-604-287A-474
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Query Match 93.2%; Score 725.8; DB 4; Length 3865;
Best Local Similarity 98.3%; Pred. No. 3.5e-185;
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCAATTAGCCTGCCATTGAAATGCAAAAGCTGTGTTCCAAATAAAGCCTTGGAAATTGAAGA 95
Db 1645 CTTTCGAGCCTGCCATTGAAATGCAAAAGCTGTGTTCCAAATAAAGCCTTGGAAATTGAAGA 1704

QY 96 ATGAACAAACATTGGAGACAGATGAGATACCTCCCATCAGAAATCCAAACAAAAGGACTATG 155
Db 1705 ATGAACAAACATTGGAGACAGATGAGATACCTCCCATCAGAAATCCAAACAAAAGGACTATG 1764

QY 156 AAGAAGATTCTTGGGATCTCTGTGAGACTGTTTCACAGAGGATGTGTGTT 215
Db 1765 AAGAAGATTCTTGGGATCTCTGTGAGACTGTTTCACAGAGGATGTGTGTT 1824

QY 216 TACCCAAGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAGGGTCTC 275
Db 1825 TACCCAAGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAGGGTCTC 1884

QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTCTTATTCCTCAACTAAAG 335
Db 1885 CTGATAATGATGGTCTTCTGAAGGCTCCCTGCAGATGAAAGTCTTATTCCTCAACTAAAG 1944

QY 336 CTTTGAATTTGATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 395
Db 1945 CTTTGAATTTGATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 2004

QY 396 TCGAGCTGCCATTGAAATGCAAAAGCTGTGTTCCAAATAAAGCCTTGGAAATTGAAGATG 455
Db 2005 TCGAGCTGCCATTGAAATGCAAAAGCTGTGTTCCAAATAAAGCCTTGGAAATTGAAGATG 2064

QY 456 AACAACATTGGAGCAGATCAGATGTTCCCTTTCAGAAATCAAAACAAAAGAGGTTGAAG 515
Db 2065 AACAACATTGGAGCAGATCAGATGTTCCCTTTCAGAAATCAAAACAAAAGAGGTTGAAG 2124

QY 516 AAAATTCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 575
Db 2125 AAAATTCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 2184

QY 576 CCAAGCTACACATCAAAAGAAATGGAATAAATAGTGGAAATTTAGAGGATCAACTA 635
Db 2185 CCAAGCTACACATCAAAAGAAATGGAATAAATAGTGGAAATTTAGAGGATCAACTA 2244

QY 636 GCCTATCAAAATCTTGGATACAGTTCATTCTTGTGAAAGCAAGGAACTTCAAAAAG 695
Db 2245 GCCTATCAAAATCTTGGATACAGTTCATTCTTGTGAAAGCAAGGAACTTCAAAAAG 2304

QY 696 ATCACTGTGAACAACGTACAGAAATAATGGAAACAAATGAAAGAGTTTGTGTACTGA 755
Db 2305 ATCACTGTGAACAACGTACAGAAATAATGGAAACAAATGAAAGAGTTTGTGTACTGA 2364

QY 756 AAAAGAAACTGTCAGAGCAAAA 778
Db 2365 AAAAGAAACTGTCAGAGCAAAA 2387
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RESULT 14
US-09-834-759-474
; Sequence 474, Application US/09834759
; Patent No. 6680197
; GENERAL INFORMATION:
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```

; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C9
; CURRENT APPLICATION NUMBER: US/09/834, 759
; CURRENT FILING DATE: 2001-04-13
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 474
; LENGTH: 3865
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2448)...(2631)
; OTHER INFORMATION: 184 bp insert of B726P splice form
US-09-834-759-474

Query Match 93.2%; Score 725.8; DB 4; Length 3865;
Best Local Similarity 98.3%; Pred. No. 3.5e-185;
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTTAGCTGCTGCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 95
DB 1645 CCTTCAGCGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 1704

QY 96 ATGAACAAACATTGAGACGAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATG 155
DB 1705 ATGAACAAACATTGAGACGAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATG 1764

QY 156 AAGAAAGTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCACAGAGGATGTGTGT 215
DB 1765 AAGAAAGTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCACAGAGGATGTGTGT 1824

QY 216 TACCCAGGCTACACATCAAAAGAAATAGATAAAATAGATAAAATAGAAAGGCTCTC 275
DB 1825 TACCCAGGCTACACATCAAAAGAAATAGATAAAATAGATAAAATAGAAAGGCTCTC 1884

QY 276 CTGTTAAAGATGGTCTTCTGAAAGGCTAATCGCGGAATGAAAGTCTTATTCACAACTAAAG 335
DB 1885 CTGATAATGATGGTCTTCTGAAAGGCTAATCGCGGAATGAAAGTCTTATTCACAACTAAAG 1944

QY 336 CTTTGAATTTGATGGACATGCAAACTTTCAAAGCAGAGCTCCCGAGAGCCATCTGCCT 395
DB 1945 CTTTGAATTTGATGGACATGCAAACTTTCAAAGCAGAGCTCCCGAGAGCCATCTGCCT 2004

QY 396 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGAATG 455
DB 2005 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGAATG 2064

QY 456 AACAAACATTGAGACGAGATCAGATGTTCCCTTCAGAATCAAAACAAAGAGGTTGAAG 515
DB 2065 AACAAACATTGAGACGAGATCAGATGTTCCCTTCAGAATCAAAACAAAGAGGTTGAAG 2124

QY 516 AAAATCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 575
DB 2125 AAAATCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 2184

QY 576 CCAAGGCTACACATCAAAAGAAATGATAAAATAGTGAATAATAGTGAATAATCAACTA 635
DB 2185 CCAAGGCTACACATCAAAAGAAATGATAAAATAGTGAATAATAGTGAATAATCAACTA 2244

QY 636 GCCTATCAAAAATCTTTGGATACAGTTCATTTCTTGTGAAAGCAAGGGAACCTTCAAAAAG 695
DB 2245 GCCTATCAAAAATCTTTGGATACAGTTCATTTCTTGTGAAAGCAAGGGAACCTTCAAAAAG 2304

QY 696 ATCACTGTGAACACGTCACAGGAAATGGAACAAATGAAAGAAAGTTTGTGTACTGA 755
DB 755 ATCACTGTGTGAACACGTCACAGGAAATGGAACAAATGAAAGAAAGTTTGTGTACTGA 755

Db 2305 ATCACTGTGAACACGTCACAGGAAATGGAACAAATGGAAGAAAGTTTGTGTACTGA 2364
QY 756 AAAGAAACTGTGCAAGCAAAA 778
Db 2365 AAAGAAACTGTGCAAGCAAAA 2387

RESULT 15
US-09-590-751A-474
; Sequence 474, Application US/09590751A
; Patent No. 6756477
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C6
; CURRENT APPLICATION NUMBER: US/09/590, 751A
; CURRENT FILING DATE: 2000-06-08
; NUMBER OF SEQ ID NOS: 479
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 474
; LENGTH: 3865
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2448)...(2631)
; OTHER INFORMATION: 184 bp insert of B726P splice form
US-09-590-751A-474

Query Match 93.2%; Score 725.8; DB 4; Length 3865;
Best Local Similarity 98.3%; Pred. No. 3.5e-185;
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTTAGCTGCTGCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 95
DB 1645 CCTTCAGCGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 1704

QY 96 ATGAACAAACATTGAGACGAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATG 155
DB 1705 ATGAACAAACATTGAGACGAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATG 1764

QY 156 AAGAAAGTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCACAGAGGATGTGTGT 215
DB 1765 AAGAAAGTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCACAGAGGATGTGTGT 1824

QY 216 TACCCAGGCTACACATCAAAAGAAATAGATAAAATAGATAAAATAGAAAGGCTCTC 275
DB 1825 TACCCAGGCTACACATCAAAAGAAATAGATAAAATAGATAAAATAGAAAGGCTCTC 1884

QY 276 CTGTTAAAGATGGTCTTCTGAAAGGCTAATCGCGGAATGAAAGTCTTATTCACAACTAAAG 335
DB 1885 CTGATAATGATGGTCTTCTGAAAGGCTAATCGCGGAATGAAAGTCTTATTCACAACTAAAG 1944

QY 336 CTTTGAATTTGATGGACATGCAAACTTTCAAAGCAGAGCTCCCGAGAGCCATCTGCCT 395
DB 1945 CTTTGAATTTGATGGACATGCAAACTTTCAAAGCAGAGCTCCCGAGAGCCATCTGCCT 2004

QY 396 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGAATG 455
DB 2005 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGAATG 2064

QY 456 AACAAACATTGAGACGAGATCAGATGTTCCCTTCAGAATCAAAACAAAGAGGTTGAAG 515
DB 2065 AACAAACATTGAGACGAGATCAGATGTTCCCTTCAGAATCAAAACAAAGAGGTTGAAG 2124

QY 516 AAAATCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 575
DB 2125 AAAATCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCACAGAGGATGTGTGTAC 2184

QY 576 CCAAGGCTACACATCAAAAGAAATGATAAAATAGTGAATAATAGTGAATAATCAACTA 635
DB 2185 CCAAGGCTACACATCAAAAGAAATGATAAAATAGTGAATAATAGTGAATAATCAACTA 2244

QY 636 GCCTATCAAAAATCTTTGGATACAGTTCATTTCTTGTGAAAGCAAGGGAACCTTCAAAAAG 695
DB 2245 GCCTATCAAAAATCTTTGGATACAGTTCATTTCTTGTGAAAGCAAGGGAACCTTCAAAAAG 2304

QY 696 ATCACTGTGAACACGTCACAGGAAATGGAACAAATGAAAGAAAGTTTGTGTACTGA 755
DB 755 ATCACTGTGTGAACACGTCACAGGAAATGGAACAAATGAAAGAAAGTTTGTGTACTGA 755
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Db 2125 AAAATTCTTGGGATTCTGAGAGTCTCCGTGAGACTGTTTCACAGAAGGATGTGTGTAC 2184

QY 576 CCAAGGCTACACATCAAAAAGAAATGGATAAAATAAGTGGAAATTAGAAGATTCAACTA 635

Db 2185 CCAAGGCTACACATCAAAAAGAAATGGATAAAATAAGTGGAAATTAGAAGATTCAACTA 2244

QY 636 GCCTATCAAAAATCTTTGGATACAGTTTCATTCTTTGTGAAAAGCAAGGGAACTTCAAAAAG 695

Db 2245 GCCTATCAAAAATCTTTGGATACAGTTTCATTCTTTGTGAAAAGCAAGGGAACTTCAAAAAG 2304

QY 696 ATCACTGTGAACAACGTACAGGAAAAATGGAACAAATGAAAAAGAGTTTGTGTACTGA 755

Db 2305 ATCACTGTGAACAACGTACAGGAAAAATGGAACAAATGAAAAAGAGTTTGTGTACTGA 2364

QY 756 AAAAGAACTGTCAGAGCAAA 778

Db 2365 AAAAGAACTGTCAGAGCAAAA 2387

Search completed: October 14, 2005, 23:24:52  
Job time : 194 secs

1 GTATACATTCTTTATTAAATCATTTTGTGCTTCCAACCCCATTTAGCCTGCCATTGAAATGCA 60

1 GTATACATTCTTTATTAAATCATTTTGTGCTTCCAACCCCATTTAGCCTGCCATTGAAATGCA 60

[illegible]

RESULT 2  
 US-10-181-663-15  
 ; Sequence 15, Application US/10181663  
 ; Publication No. US20040126398A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jager, Dirk  
 ; APPLICANT: Scanlan, Matthew  
 ; APPLICANT: Gure, Ali  
 ; APPLICANT: Jager, Elke  
 ; APPLICANT: Knuth, Alexander  
 ; APPLICANT: Old, Lloyd  
 ; APPLICANT: Chen, Yao-tseng  
 ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated Antigens per se, and Uses Thereof  
 ; FILE REFERENCE: LUD 5615  
 ; CURRENT APPLICATION NUMBER: US/10/181.663  
 ; CURRENT FILING DATE: 2002-07-19  
 ; PRIOR APPLICATION NUMBER: 09/451,739  
 ; PRIOR FILING DATE: 1999-11-30  
 ; NUMBER OF SEQ ID NOS: 19  
 ; SEQ ID NO 15

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; LENGTH: 2030
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 128, 1752, 1758, 1769, 1789, 1873, 1908, 1915, 1933, 1970, 1976, 2022
; OTHER INFORMATION: Unknown
; US-10-181-663-15

Query Match          93.3%; Score 727; DB 19; Length 2030;
Best Local Similarity 98.7%; Pred. No. 1.4e-171;
Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 36 CCATTTAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA 95
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Db 124 CTTTCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA 183
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Qy 96 ATGAACAACATTTGAGAGCAGATGAGATACTCCCATCAGATCCAAACAAAGACGATATG 155
   |||
Db 184 ATGAACAACATTTGAGAGCAGATGAGATACTCCCATCAGATCCAAACAAAGACGATATG 243
   |||

Qy 156 AAGAAGATTCTTGGGATTTCTGAGAGTCTCTGTGAGACTGTTTTCACAGAAGGATGTGTGTT 215
   |||
Db 244 AAGAAGATTCTTGGGATTTCTGAGAGTCTCTGTGAGACTGTTTTCACAGAAGGATGTGTGTT 303
   |||

Qy 216 TACCAAGGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAAGGGTCTC 275
   |||
Db 304 TACCAAGGCTACACATCAAAAGAAATAGATAAAATAAATGGAATTTAGAAGGCTCTC 363
   |||

Qy 276 CTGTTAAGATGGTCTTCTGAAGGCTAACTCGGGAATGAAAAGTTTCTATTCCAACTAAAG 335
   |||
Db 364 CTGATAATGATGGTTTCTGAAGGCTCCCTGCAGAAATGAAAAGTTTCTATTCCAACTAAAG 423
   |||

Qy 336 CCTTAGAATTGATGACATGCAAACTTTCAAAGCAGAGCCTCCGAGAGGCATCTGCCT 395
   |||
Db 424 CCTTAGAATTGATGACATGCAAACTTTCAAAGCAGAGCCTCCGAGAGGCATCTGCCT 483
   |||

Qy 396 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTTCCAAATAAAGCCTTGGAAATTGAAGAATG 455
   |||
Db 484 TCGAGCCTGCCATTGAAATGCAAAAGTCTGTTTCCAAATAAAGCCTTGGAAATTGAAGAATG 543
   |||

Qy 456 ACAAACATTTGAGAGCAGATCGATGTTCCCTTCAGATCAAAACAAAGAGGTTGAAG 515
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Db 544 ACAAACATTTGAGAGCAGATCGATGTTCCCTTCAGATCAAAACAAAGAGGTTGAAG 603
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Qy 516 AAAATTTCTTGGGATTTCTGAGAGTCTCCGTGAGACTGTTTTCACAGAAGGATGTGTGTAC 575
   |||
Db 604 AAAATTTCTTGGGATTTCTGAGAGTCTCCGTGAGACTGTTTTCACAGAAGGATGTGTGTAC 663
   |||

Qy 576 CCAAGGCTACACATCAAAAGAAATGGATAAAATAAGTGGAAAAATTGAAGATTTCAACTA 635
   |||
Db 664 CCAAGGCTACACATCAAAAGAAATGGATAAAATAAGTGGAAAAATTGAAGATTTCAACTA 723
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Qy 636 GCGTATCAAAAATCTTTGGATACAGTTTCATCTTGTGAAAGACGAAGGAACTTCAAAAAG 695
   |||
Db 724 GCGTATCAAAAATCTTTGGATACAGTTTCATCTTGTGAAAGACGAAGGAACTTCAAAAAG 783
   |||

Qy 696 ATCACTGTGAACAACGTCACGAAAAATGGAAACAAATGAAAAGAAAGTTTTGTCTACTGA 755
   |||
Db 784 ATCACTGTGAACAACGTCACGAAAAATGGAAACAAATGAAAAGAAAGTTTTGTCTACTGA 843
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Qy 756 AAAAGAAACTGTGAGAAGCAAAA 778
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Db 844 AAAAGAACTGTGAGAAGCAAAA 866
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RESULT 3
US-10-729-340C-15
; Sequence 15, Application US/10729340C
; Publication No. US20050063981A1
; GENERAL INFORMATION:
; APPLICANT: Jager, Dirk
; APPLICANT: Stockert, Elizabeth

```

APPLICANT: Scanlan, Matthew  
APPLICANT: Gure, Ali  
APPLICANT: Knuth, Alexander  
APPLICANT: Old, Lloyd  
APPLICANT: Chen, Yao-tseng  
TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated Antigen  
TITLE OF INVENTION: Antigens Per Se, and Uses Thereof  
FILE REFERENCE: LUD 5793.1  
CURRENT APPLICATION NUMBER: US/10/729,340C  
CURRENT FILING DATE: 2003-12-04  
PRIOR APPLICATION NUMBER: US 60/430,869  
PRIOR FILING DATE: 2002-12-04  
PRIOR APPLICATION NUMBER: US 10/181,663  
PRIOR FILING DATE: 2000-11-29  
PRIOR APPLICATION NUMBER: US 09/602,362  
PRIOR FILING DATE: 2000-06-22  
PRIOR APPLICATION NUMBER: US 09/451,739  
PRIOR FILING DATE: 1999-11-30  
NUMBER OF SEQ ID NOS: 32  
SEQ ID NO 15  
LENGTH: 2030  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1628, 1752, 1758, 1769, 1789, 1873, 1908, 1915, 1933, 1970,  
LOCATION: 1976, 2022  
OTHER INFORMATION: n is unknown  
US-10-729-340C-15

Query Match 93.3%; Score 727; DB 21; Length 2030;  
Best Local Similarity 98.7%; Pred. No. 1.4e-171;  
Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTAGCTGCCATTGAAATGCAAAAGCTGTTCCTCAATTAAGCCTTGGAAATGAAGA 95  
DB 124 CTTTCGAGCTGCCATTGAAATGCAAAAGCTGTTCCTCAATTAAGCCTTGGAAATGAAGA 183  
QY 96 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAGAAATCCAAACAAAGAGGACTATG 155  
DB 184 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAGAAATCCAAACAAAGAGGACTATG 243  
QY 156 AGAAAGTTCTTGGATCTGAGAGTCTGTGAGACTGTTCACAGAGGATGTGTGT 215  
DB 244 AGAAAGTTCTTGGATCTGAGAGTCTGTGAGACTGTTCACAGAGGATGTGTGT 303  
QY 216 TACCAAGGCTACATCAAAAGAAATAGATAAAATAAATGAAATTTAGAAAGGCTCTC 275  
DB 304 TACCAAGGCTACATCAAAAGAAATAGATAAAATAAATGAAATTTAGAAAGTCTC 363  
QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAACTAAAG 335  
DB 364 CTGATAATGATGGTCTTCTGAAGGCTCCCTGCGAATGAAAGTTTCTATTCCAACTAAAG 423  
QY 336 CTTTGAATTTGATGACATGCAAACTTTCAAGAGAGGCTCCCGAGAGCCCATCTGCCT 395  
DB 424 CTTTGAATTTGATGACATGCAAACTTTCAAGAGAGGCTCCCGAGAGCCCATCTGCCT 483  
QY 396 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCTCAATTAAGCCTTGGAAATTTAGAAATG 455  
DB 484 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCTCAATTAAGCCTTGGAAATTTAGAAATG 543  
QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 515  
DB 544 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 603  
QY 516 AAAATTTCTGGATTTCTGAGAGTCTCCGTGAGACTGTTCACAGAGGATGTGTGTAC 575  
DB 604 AAAATTTCTGGATTTCTGAGAGTCTCCGTGAGACTGTTCACAGAGGATGTGTGTAC 663  
QY 576 CCAAGGCTACATCAAAAGAAATGGATAAAATTAAGTGGAAATTTAGAAATTTCAACTA 635  
DB 664 CCAAGGCTACATCAAAAGAAATGGATAAAATTAAGTGGAAATTTAGAAATTTCAACTA 723

QY 636 GCCTATCAAAAATCTTGGATACAGTTCAATTTGTGAAAGAGCAAGGAACTTCAAAAAG 695  
DB 724 GCCTATCAAAAATCTTGGATACAGTTCAATTTGTGAAAGAGCAAGGAACTTCAAAAAG 783  
QY 696 ATCACTGTGAAACAGCTACAGAAAAATGGAAACAATGAAAGAAAGTTTGTGTACTGA 755  
DB 784 ATCACTGTGAAACAGCTACAGAAAAATGGAAACAATGAAAGAAAGTTTGTGTACTGA 843  
QY 756 AAAAGAACTGTGAGAAGCAAAA 778  
DB 844 AAAAGAACTGTGAGAAGCAAAA 866

## RESULT 4

US-10-825-026-5  
Sequence 5, Application US/10825026  
Publication No. US2005011209A1  
GENERAL INFORMATION:  
APPLICANT: Aventis Pasteur, Ltd.  
TITLE OF INVENTION: Tumor Antigen BPA-5 for Prevention and/or Treatment of Cancer  
FILE REFERENCE: API-03-03-US  
CURRENT APPLICATION NUMBER: US/10/825,026  
CURRENT FILING DATE: 2004-04-15  
PRIOR APPLICATION NUMBER: 60/462,945  
PRIOR FILING DATE: 2004-04-15  
NUMBER OF SEQ ID NOS: 106  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 5  
LENGTH: 4026  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-825-026-5

Query Match 93.3%; Score 727; DB 21; Length 4026;  
Best Local Similarity 98.7%; Pred. No. 1.9e-171;  
Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTAGCTGCCATTGAAATGCAAAAGTCTGTTCCTCAATTAAGCCTTGGAAATGAAGA 95  
DB 2111 CTTTCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCTCAATTAAGCCTTGGAAATGAAGA 2170  
QY 96 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAGAAATCCAAACAAAGAGGACTATG 155  
DB 2171 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAGAAATCCAAACAAAGAGGACTATG 2230  
QY 156 AGAAAGTTCTTGGATTTCTGAGAGTCTGTGAGACTGTTCACAGAGGATGTGTGT 215  
DB 2231 AGAAAGTTCTTGGATTTCTGAGAGTCTGTGAGACTGTTCACAGAGGATGTGTGT 2290  
QY 216 TACCAAGGCTACATCAAAAGAAATAGATAAAATAAATGAAATTTAGAAAGGCTCTC 275  
DB 2291 TACCAAGGCTACATCAAAAGAAATAGATAAAATAAATGAAATTTAGAAAGGCTCTC 2350  
QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAACTAAAG 335  
DB 2351 CTGATAATGATGGTCTTCTGAAGGCTCCCTGCGAATGAAAGTTTCTATTCCAACTAAAG 2410  
QY 336 CTTTGAATTTGATGACATGCAAACTTTCAAGAGAGGCTCCCGAGAGCCCATCTGCCT 395  
DB 2411 CTTTGAATTTGATGACATGCAAACTTTCAAGAGAGGCTCCCGAGAGCCCATCTGCCT 2470  
QY 396 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCTCAATTAAGCCTTGGAAATTTAGAAATG 455  
DB 2471 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCTCAATTAAGCCTTGGAAATTTAGAAATG 2530  
QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 515  
DB 2531 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 2590  
QY 516 AAAATTTCTGGATTTCTGAGAGTCTCCGTGAGACTGTTCACAGAGGATGTGTGTAC 575  
DB 2591 AAAATTTCTGGATTTCTGAGAGTCTCCGTGAGACTGTTCACAGAGGATGTGTGTAC 2650

QY 576 CCAAGGCTACATCAAAAGAAATGGATAAATAGTGGAATTTAGAGATTCAACTA 635  
Db 2651 CCAAGGCTACATCAAAAGAAATGGATAAATAGTGGAATTTAGAGATTCAACTA 2710  
QY 636 GCCTATCAAAATCTTTGGATACAGTTCAATCTTTGTGAAAGCAAGGGAACCTTCAAAAG 695  
Db 2711 GCCTATCAAAATCTTTGGATACAGTTCAATCTTTGTGAAAGCAAGGGAACCTTCAAAAG 2770  
QY 696 ATCACTGTGAACAACGTACAGAAATAATGGAAACAAATGAAAGAAAGTTTGTGTACTGA 755  
Db 2771 ATCACTGTGAACAACGTACAGAAATAATGGAAACAAATGAAAGAAAGTTTGTGTACTGA 2830  
QY 756 AAAAGAAACTGTCAAGCAAAA 778  
Db 2831 AAAAGAAACTGTCAAGCAAAA 2853

## RESULT 5

US-10-007-805-566

; Sequence 566, Application US/10007805

; Publication No. US20020150581A1

; GENERAL INFORMATION:

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Hepler, William T.

; APPLICANT: Henderson, Robert A.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: McNeill, Patricia D.

; APPLICANT: Durham, Margarita

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE REFERENCE: 210121.470C10

; CURRENT APPLICATION NUMBER: US/10/007,805

; CURRENT FILING DATE: 2001-12-07

; NUMBER OF SEQ ID NOS: 593

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 566

; LENGTH: 4047

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-007-805-566

Query Match 93.3%; Score 727; DB 13; Length 4047;

Best Local Similarity 98.7%; Pred. No. 1.9e-171;

Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTTAGCCTGCCATTTGAATGCAAAAGTCTGTTCCAAATAAAGCCCTTGGAAATTGAAGA 95  
Db 2135 CTTTCGAGCCTGCCATTTGAATGCAAAAGTCTGTTCCAAATAAAGCCCTTGGAAATTGAAGA 2194  
QY 96 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAGATCCAAACAAAGAGACTATG 155  
Db 2195 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAGATCCAAACAAAGAGACTATG 2254  
QY 156 AAGAAAGTTCTTGGGATTTCTGAGACTCTCTGTGAGACTGTTTTCACAGAGGATGTGTGT 215  
Db 2255 AAGAAAGTTCTTGGGATTTCTGAGACTCTCTGTGAGACTGTTTTCACAGAGGATGTGTGT 2314  
QY 216 TACCAAGGCTACATCAAAAGAAATAGATAAATAAGTGAATTAAGTGAAGGCTCTC 275  
Db 2315 TACCAAGGCTACATCAAAAGAAATAGATAAATAAGTGAATTAAGTGAAGGCTCTC 2374  
QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAACTAAAG 335  
Db 2375 CTGATAATGATGTTTCTGAAGGCTCCCTGCAGATGAAAGTTTCTATTCCAACTAAAG 2434  
QY 336 CTTTGAATTTGATGACATGCAAACTTTCAAGCAGAGCCTCCCGAGAGCCATCTGCCT 395  
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Db 2435 CTTTAGAATTTGATGGAATGCAAACTTTTAAAGCAGAGCCCTCCCGAGAAGCCATCTGCCT 2494  
QY 396 TCGAGCCTGCCATTTGAATGCAAAAGTCTGTTCCAAATAAAGCCCTTGGAAATTGAAGATG 455  
Db 2495 TCGAGCCTGCCATTTGAATGCAAAAGTCTGTTCCAAATAAAGCCCTTGGAAATTGAAGATG 2554  
QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCCAGATCAAAACAAAGAGGTTGAAG 515  
Db 2555 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCCAGATCAAAACAAAGAGGTTGAAG 2614  
QY 516 AAAATTCTTGGATTTCTGAGAGTCTCCGTGAGACTGTTTTCACAGAGGATGTGTGTACTG 575  
Db 2615 AAAATTCTTGGATTTCTGAGAGTCTCCGTGAGACTGTTTTCACAGAGGATGTGTGTACTG 2674  
QY 576 CCAAGGCTACATCAAAAGAAATGGATAAATAGTGAATTAAGTGAATTAAGTGAATTAAGTGA 635  
Db 2675 CCAAGGCTACATCAAAAGAAATGGATAAATAGTGAATTAAGTGAATTAAGTGAATTAAGTGA 2734  
QY 636 GCCTATCAAAATCTTTGGATACAGTTCAATCTTTGTGAAAGCAAGGGAACCTTCAAAAAG 695  
Db 2735 GCCTATCAAAATCTTTGGATACAGTTCAATCTTTGTGAAAGCAAGGGAACCTTCAAAAAG 2794  
QY 696 ATCACTGTGAACAACGTACAGAAATAATGGAAACAAATGAAAGAAAGTTTGTGTACTGA 755  
Db 2795 ATCACTGTGAACAACGTACAGAAATAATGGAAACAAATGAAAGAAAGTTTGTGTACTGA 2854  
QY 756 AAAAGAAACTGTCAAGCAAAA 778  
Db 2855 AAAAGAAACTGTCAAGCAAAA 2877

## RESULT 6

US-10-076-622-566

; Sequence 566, Application US/10076622

; Publication No. US20030023036A1

; GENERAL INFORMATION:

; APPLICANT: Houghton, Raymond L.

; APPLICANT: Sleath, Paul R.

; APPLICANT: Persing, David H.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE REFERENCE: 210121.470C11

; CURRENT APPLICATION NUMBER: US/10/076,622

; CURRENT FILING DATE: 2002-02-13

; NUMBER OF SEQ ID NOS: 627

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 566

; LENGTH: 4047

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-076-622-566

Query Match 93.3%; Score 727; DB 14; Length 4047;

Best Local Similarity 98.7%; Pred. No. 1.9e-171;

Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTTAGCCTGCCATTTGAATGCAAAAGTCTGTTCCAAATAAAGCCCTTGGAAATTGAAGA 95  
Db 2135 CTTTCGAGCCTGCCATTTGAATGCAAAAGTCTGTTCCAAATAAAGCCCTTGGAAATTGAAGA 2194  
QY 96 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAGAAATCCAAACAAAGAGCTATG 155  
Db 2195 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAGAAATCCAAACAAAGAGCTATG 2254  
QY 156 AAGAAAGTTCTTGGGATTTCTGAGACTCTCTGTGAGACTGTTTTCACAGAGGATGTGTGT 215  
Db 2255 AAGAAAGTTCTTGGGATTTCTGAGACTCTCTGTGAGACTGTTTTCACAGAGGATGTGTGT 2314  
QY 216 TACCAAGGCTACATCAAAAGAAATAGATAAATAAGTGAATTAAGTGAAGGCTCTC 275  
Db 2315 TACCAAGGCTACATCAAAAGAAATAGATAAATAAGTGAATTAAGTGAAGGCTCTC 2374  
QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAACTAAAG 335  
|||||

```
Db 2375 CTGATAATGATGGTTTCTGAGGCTCCCTGCAGAAATGAAAGTTTCTATTCCAACTAAAG 2434
QY 336 CTTTAGAATGATGGACATCAAACTTTTCAAGCAGAGCTCCCGAGAGGCCATCTGCCT 395
Db 2435 CTTTAGAATGATGGACATCAAACTTTTCAAGCAGAGCTCCCGAGAGGCCATCTGCCT 2494
QY 396 TCAGGCTGCCATTGCAAAATGCAAAAGTCTGTTCCAAATAAAGCCTTTGGAATTGAAGAATG 455
Db 2495 TCAGGCTGCCATTGCAAAATGCAAAAGTCTGTTCCAAATAAAGCCTTTGGAATTGAAGAATG 2554
QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 515
Db 2555 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 2614
QY 516 AAAATTTCTTGGGATTTCTGAGAGTCTCCGTGAGACTGTTTCAAGAGAGGATGTTGTGTAC 575
Db 2615 AAAATTTCTTGGGATTTCTGAGAGTCTCCGTGAGACTGTTTCAAGAGAGGATGTTGTGTAC 2674
QY 576 CCAAGGCTACACATCAAAAGAAATGGATAAAATAGTGGAAATTTAGAGATTTCAACTA 635
Db 2675 CCAAGGCTACACATCAAAAGAAATGGATAAAATAGTGGAAATTTAGAGATTTCAACTA 2734
QY 636 GCCTATCAAAATCTTGGATACAGTTCAATCTTGTGAAAGAGCAAGGAACTTCAAAAAG 695
Db 2735 GCCTATCAAAATCTTGGATACAGTTCAATCTTGTGAAAGAGCAAGGAACTTCAAAAAG 2794
QY 696 ATCACTGTGAACACGTACAGGAAATGGAACAAATGGAACAAATGGAAGAGTTTGTGTACTGA 755
Db 2795 ATCACTGTGAACACGTACAGGAAATGGAACAAATGGAACAAATGGAAGAGTTTGTGTACTGA 2854
QY 756 AAAAGAAACTGTGAGAAGCAAAA 778
Db 2855 AAAAGAAACTGTGAGAAGCAAAA 2877
```

## RESULT 7

```
US-10-124-805-566
; Sequence 566, Application US/10124805
; Publication No. US20030166022A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.470C12
; CURRENT APPLICATION NUMBER: US/10/124,805
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 566
; LENGTH: 4047
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-124-805-566
```

```
Query Match 93.3%; Score 727; DB 16; Length 4047;
Best Local Similarity 98.7%; Pred. No. 1.9e-171;
Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 95
Db 2135 CTTTCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 2194
QY 96 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAAGATCCCAACAAAGAGCAATG 155
Db 2195 ATGAACAAACATTGAGAGCAGATGAGATCTCCCATCAAGATCCCAACAAAGAGCAATG 2254
QY 156 AGAAAGTTCTTGGATTTCTGAGATCTCTGTGAGACTGTTTCAGAGAGGATGTGTGT 215
Db 2255 AGAAAGTTCTTGGATTTCTGAGATCTCTGTGAGACTGTTTCAGAGAGGATGTGTGT 2314
```

```
QY 216 TACCCAAGGCTACACATCAAAAGAAATAGATAAAATAAATGAAAAATTAGAGGCTCTC 275
Db 2315 TACCCAAGGCTACACATCAAAAGAAATAGATAAAATAAATGAAAAATTAGAGAGCTCTC 2374
QY 276 CTGTTAAAGATGGTCTTCTGAAGGCTAACTCGGGAATGAAAGTTTCTATTCCAACTAAAG 335
Db 2375 CTGATAATGATGGTTTCTGAAAGGCTCCCTGCAGAAATGAAAGTTTCTATTCCAACTAAAG 2434
QY 336 CTTTAGAATGATGACATGCAAACTTTTCAAGCAGAGCTCCCGAGAGGCCATCTGCCT 395
Db 2435 CTTTAGAATGATGACATGCAAACTTTTCAAGCAGAGCTCCCGAGAGGCCATCTGCCT 2494
QY 396 TCAGGCTGCCATTGCAAAATGCAAAAGTCTGTTCCAAATAAAGCCTTTGGAATTGAAGAATG 455
Db 2495 TCAGGCTGCCATTGCAAAATGCAAAAGTCTGTTCCAAATAAAGCCTTTGGAATTGAAGAATG 2554
QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 515
Db 2555 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAGAGGTTGAAG 2614
QY 516 AAAATTTCTTGGGATTTCTGAGAGTCTCCGTGAGACTGTTTCAAGAGAGGATGTTGTGTAC 575
Db 2615 AAAATTTCTTGGGATTTCTGAGAGTCTCCGTGAGACTGTTTCAAGAGAGGATGTTGTGTAC 2674
QY 576 CCAAGGCTACACATCAAAAGAAATGGATAAAATAGTGGAAATTTAGAGATTTCAACTA 635
Db 2675 CCAAGGCTACACATCAAAAGAAATGGATAAAATAGTGGAAATTTAGAGATTTCAACTA 2734
QY 636 GCCTATCAAAATCTTGGATACAGTTCAATCTTGTGAAAGAGCAAGGAACTTCAAAAAG 695
Db 2735 GCCTATCAAAATCTTGGATACAGTTCAATCTTGTGAAAGAGCAAGGAACTTCAAAAAG 2794
QY 696 ATCACTGTGAACACGTACAGGAAATGGAACAAATGGAACAAATGGAAGAGTTTGTGTACTGA 755
Db 2795 ATCACTGTGAACACGTACAGGAAATGGAACAAATGGAACAAATGGAAGAGTTTGTGTACTGA 2854
QY 756 AAAAGAAACTGTGAGAAGCAAAA 778
Db 2855 AAAAGAAACTGTGAGAAGCAAAA 2877
```

## RESULT 8

```
US-10-007-805-564
; Sequence 564, Application US/10007805
; Publication No. US20020150581A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Durham, Margarita
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.470C10
; CURRENT APPLICATION NUMBER: US/10/007,805
; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 593
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 564
; LENGTH: 4458
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-007-805-564
```

```
Query Match 93.3%; Score 727; DB 13; Length 4458;
Best Local Similarity 98.7%; Pred. No. 2e-171;
Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```





```

1  APPLICANT: Hoersch, Sebastian
2  APPLICANT: Monahan, John
3  APPLICANT: Meyers, Rachel E.
4  APPLICANT: Bast Jr., Robert C.
5  APPLICANT: Hortobagyi, Gabriel N.
6  APPLICANT: Puzstai, Lajos
7  APPLICANT: Meric, Funda
8  APPLICANT: Sahin, Aysegul
9  APPLICANT: Mills, Gordon B.
10 TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
11 FILE OF INVENTION: PREVENTION, AND THERAPY OF BREAST CANCER
12 FILE REFERENCE: MRI-038
13 CURRENT APPLICATION NUMBER: US/10/177,293
14 CURRENT FILING DATE: 2002-06-21
15 PRIOR APPLICATION NUMBER: US 60/299,887
16 PRIOR FILING DATE: 2001-06-21
17 PRIOR APPLICATION NUMBER: US 60/301,572
18 PRIOR FILING DATE: 2001-06-27
19 PRIOR APPLICATION NUMBER: US 60/306,501
20 PRIOR FILING DATE: 2001-07-18
21 PRIOR APPLICATION NUMBER: US 60/325,002
22 PRIOR FILING DATE: 2001-09-25
23 PRIOR APPLICATION NUMBER: US 60/362,585
24 PRIOR FILING DATE: 2002-03-05
25 PRIOR APPLICATION NUMBER: US 60/xxx,xxx
26 PRIOR FILING DATE: 2002-05-14
27 NUMBER OF SEQ ID NOS: 506
28 SOFTWARE: FastSeq for Windows Version 4.0
29 SEQ ID NO 333
30 LENGTH: 4458
31 TYPE: DNA
32 ORGANISM: Homo sapiens
33 US-10-177-293-333

```

Query Match	93.3%	Score 727	DB 15	Length 4458
Best Local Similarity	98.7%	Pred. No. 2e-171		
Matches 733	Conservative 0	Mismatches 10	Indels 0	Gaps 0
Qy	36	CCATTTAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA	95	
Db	2210	CCTTGAGCGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA	2269	
Qy	96	ATGAACAAAACATTGAGAGCAGATCAGATATCTCCCATCAGAAATCAAAACAAAAGGACTATG	155	
Db	2270	ATGAACAAAACATTGAGAGCAGATCAGATATCTCCCATCAGAAATCAAAACAAAAGGACTATG	2329	
Qy	156	AAGAAAGTTCTTGGGATCTTGAGAGTCTCTGTGAGACTGTGTTTCACAGAAGATGTGTGTT	215	
Db	2330	AAGAAAGTTCTTGGGATCTTGAGAGTCTCTGTGAGACTGTGTTTCACAGAAGATGTGTGTT	2389	
Qy	216	TACCCAGGCTACACATCAAAAAGAAATAGATAAAATTAATGGAATTTAGNAGGCTCTC	275	
Db	2390	TACCCAGGCTACACATCAAAAAGAAATAGATAAAATTAATGGAATTTAGNAGAGTCTC	2449	
Qy	276	CTGTAAAGATGCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCATTTCCAACTAAAG	335	
Db	2450	CTGATAATGATGGTTTCTGAAGCTCCCTGCAGATGAAAGTTTCATTTCCAACTAAAG	2509	
Qy	336	CCTTAGAATTTGATGGAATGCAATCTTTCAAAGCAGAGCCTCCCGAAGGCCATCTCGCCT	395	
Db	2510	CCTTAGAATTTGATGGAATGCAATCTTTCAAAGCAGAGCCTCCCGAAGGCCATCTCGCCT	2569	
Qy	396	TCGAGCTCGCATTGAAATCGAAAGTCTGTTCCAAATAAGCCTTGGAAATTGAAGATG	455	
Db	2570	TCGAGCTCGCATTGAAATCGAAAGTCTGTTCCAAATAAGCCTTGGAAATTGAAGATG	2629	
Qy	456	AACAAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAAGGTTCAAG	515	
Db	2630	AACAAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAAATCAAAACAAAAGGTTCAAG	2689	
Qy	516	AAAATCTTGGGATTTGAGAGTCTCCGTGAGACTGTTTCACAGAAGGATGTGTGTGTAC	575	
Db	2690	AAAATCTTGGGATTTGAGAGTCTCCGTGAGACTGTTTCACAGAAGGATGTGTGTGTAC	2749	

RESULT 11

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US-10-124-805-564
; Sequence 564, Application US/10124805
; Publication No. US20030166022A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleach, Paul R.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C12
; CURRENT APPLICATION NUMBER: US/10/124,805
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 564
; LENGTH: 4458
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-124-805-564

```

Query Match	93.3%	Score	727	DB	16	Length	4458
Best Local Similarity	98.7%	Pred. No.	2e-171				
Matches	733	Conservative	0	Mismatches	10	Indels	0
Qy	36	CCATTTAGCCTGCCATTGAAATGCRAAAGTC	TGTTCCAAATAAAGCCTTGGAAATTGAAGA	95			
Db	2210	CCTTCGAGCGTGCCATTGAAATCAAAGTCTGTTCCAAATAAAGCCTTGGAAATTGAAGA	2269				
Qy	96	ATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAAATCCAAACAAAAGGACTATG	155				
Db	2270	ATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAAATCCAAACAAAAGGACTATG	2329				
Qy	156	AGAAAGTTCTTGGGAATCTTGAGAGTCTCTGTGAGACTGTGTTACAGAAGGATGTGTGTT	215				
Db	2330	AGAAAGTTCTTGGGAATCTTGAGAGTCTCTGTGAGACTGTGTTACAGAAGGATGTGTGTT	2389				
Qy	216	TACCCAAAGGCTACACATCAAAGAAGAAATAGATAAAATAAATGAAATATAGAAAGGCTCTC	275				
Db	2390	TACCCAAAGGCTACACATCAAAGAAGAAATAGATAAAATAAATGAAATATAGAAAGGCTCTC	2449				
Qy	276	CTGTTAAAGATGCTTCTCGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCCAACTAAAG	335				
Db	2450	CTGATAATGATGCTTTCTGAGGCTCCCTGCAGAAATGAAAGTTTCTATTCCCAACTAAAG	2509				
Qy	336	CCTTAGAATTGATGGAATGCAATGCACAACTTTCAAAGCAGAGCCTCCCGAAGAGCCATCTGCCT	395				
Db	2510	CCTTAGAATTGATGGAATGCAATGCACAACTTTCAAAGCAGAGCCTCCCGAAGAGCCATCTGCCT	2569				
Qy	396	TGAGCGCTGCCATTGAAATGCRAAAGTCTGTGTTCCAAATAAAGCCTTGGAAATGAAGAATG	455				
Db	2570	TGAGCGCTGCCATTGAAATGCRAAAGTCTGTGTTCCAAATAAAGCCTTGGAAATGAAGAATG	2629				
Qy	456	AACAAACATTGAGAGCAGATCAGATGTTCCCTTTCAAGATCAAAACAAAAGAGGTTGAAG	515				



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; TYPE: DNA
; ORGANISM: human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (100)...(4125)
US-10-855-588-33

Query Match      93.3%; Score 727; DB 21; Length 4458;
Best Local Similarity 98.7%; Pred. No. 2e-171;
Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTTAGCTGCCATTGAAATCAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 95
   |||
Db 2210 CCTTCAGCTGCCATTGAAATCAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 2269

QY 96 ATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATG 155
   |||
Db 2270 ATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATG 2329

QY 156 AAGAAAGTTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCAAGAGGATGTGTGT 215
   |||
Db 2330 AAGAAAGTTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCAAGAGGATGTGTGT 2389

QY 216 TACCCAGGCTACACATCAAAGAAATAGATAAAATGAATAATGAAATTAGAAGGTCTC 275
   |||
Db 2390 TACCCAGGCTACACATCAAAGAAATAGATAAAATGAATAATGAAATTAGAAGGTCTC 2449

QY 276 CTGTTAAAGATGCTTCTGAAGGCTAACTGCGGAAATGAAAGTTTCTATTCCAACCTAAAG 335
   |||
Db 2450 CTGATAATGATGGTTTCTGAAGGCTCCCTGCAGATGAAGTTTCTATTCCAACCTAAAG 2509

QY 336 CCTTAGAATGTAGCAGATGCAAACTTTCAAAGCAGAGCTCCCGAAGAGCCATCTGCCT 395
   |||
Db 2510 CCTTAGAATGTAGCAGATGCAAACTTTCAAAGCAGAGCTCCCGAAGAGCCATCTGCCT 2569

QY 396 TCGAGCTCCCATTTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGATG 455
   |||
Db 2570 TCGAGCTCCCATTTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGATG 2629

QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAAGATCAAACAAAGAGGTTGAAG 515
   |||
Db 2630 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAAGATCAAACAAAGAGGTTGAAG 2689

QY 516 AAAATTTCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCAAGAGGATGTGTGTAC 575
   |||
Db 2690 AAAATTTCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCAAGAGGATGTGTGTAC 2749

QY 576 CCAAGGCTACACATCAAAGAAATGAGATAAAATAGTGGAAATTAGAAGATTCACACTA 635
   |||
Db 2750 CCAAGGCTACACATCAAAGAAATGAGATAAAATAGTGGAAATTAGAAGATTCACACTA 2809

QY 636 GCCTATCAAAAATCTTTGGATACAGTTTCATTTGTAAGAGAGCAAGGGAACCTTCAAAAAG 695
   |||
Db 2810 GCCTATCAAAAATCTTTGGATACAGTTTCATTTGTAAGAGAGCAAGGGAACCTTCAAAAAG 2869

QY 696 ATCACTGTGAACAAACGTCAGGAAATGGAACAAATGGAACAAATGGAAGGATTTGTGTACTGA 755
   |||
Db 2870 ATCACTGTGAACAAACGTCAGGAAATGGAACAAATGGAACAAATGGAAGGATTTGTGTACTGA 2929

QY 756 AAAAGAAACTGTCAAGACAAA 778
   |||
Db 2930 AAAAGAAACTGTCAAGACAAA 2952
```

```
RESULT 14
US-10-729-340C-31
; Sequence 31, Application US/10729340C
; Publication No. US20050063981A1
; GENERAL INFORMATION:
; APPLICANT: Jager, Dirk
; APPLICANT: Stockert, Elizabeth
; APPLICANT: Scanlan, Matthew
; APPLICANT: Gure, Ali
```

```
; APPLICANT: Knuth, Alexander
; APPLICANT: Old, Lloyd
; APPLICANT: Chen, Yao-tseng
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated Antig
; TITLE OF INVENTION: Antigens Per Se, and Uses Thereof
; FILE REFERENCE: LUD 5793.1
; CURRENT APPLICATION NUMBER: US/10/729,340C
; PRIOR FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: US 60/430,869
; PRIOR FILING DATE: 2002-12-04
; PRIOR APPLICATION NUMBER: US 10/181,663
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: US 09/602,362
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: US 09/451,739
; PRIOR FILING DATE: 1999-11-30
; NUMBER OF SEQ ID NOS: 32
; SEQ ID NO 31
; LENGTH: 6297
; TYPE: DNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-10-729-340C-31

Query Match      93.3%; Score 727; DB 21; Length 6297;
Best Local Similarity 98.7%; Pred. No. 2.4e-171;
Matches 733; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 36 CCATTTAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 95
   |||
Db 2279 CCTTCAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGA 2338

QY 96 ATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATG 155
   |||
Db 2339 ATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAATCCAAACAAAGGACTATG 2398

QY 156 AAGAAAGTTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCAAGAGGATGTGTGT 215
   |||
Db 2399 AAGAAAGTTCTTGGGATCTGAGAGTCTCTGTGAGACTGTTTCAAGAGGATGTGTGT 2458

QY 216 TACCCAGGCTACACATCAAAGAAATAGATAAAATAGATAAAATAGAAAGGCTCTC 275
   |||
Db 2459 TACCCAGGCTACACATCAAAGAAATAGATAAAATAGATAAAATAGAAAGGCTCTC 2518

QY 276 CTGTTAAAGATGCTTCTGAAGGCTAACTGCGGAAATGAAAGTCTTCTATTCCAACCTAAAG 335
   |||
Db 2519 CTGATAATGATGGTTTCTGAAGGCTCCCTGCAGAAATGAAAGTCTTCTATTCCAACCTAAAG 2578

QY 336 CCTTAGAATTTGATGGACATGCAAACTTTCAAAGCAGAGAGCTCCCGAAGAGCCATCTGCCT 395
   |||
Db 2579 CCTTAGAATTTGATGGACATGCAAACTTTCAAAGCAGAGAGCTCCCGAAGAGCCATCTGCCT 2638

QY 396 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGATG 455
   |||
Db 2639 TCGAGCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAAATGAAGATG 2698

QY 456 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAAGATCAAACAAAGAGGTTGAAG 515
   |||
Db 2699 AACAAACATTGAGAGCAGATCAGATGTTCCCTTCAAGATCAAACAAAGAGGTTGAAG 2758

QY 516 AAAATTTCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCAAGAGGATGTGTGTAC 575
   |||
Db 2759 AAAATTTCTTGGGATCTGAGAGTCTCCGTGAGACTGTTTCAAGAGGATGTGTGTAC 2818

QY 576 CCAAGGCTACACATCAAAGAAATGGAATAAAATAGTGGAAATTAGAAGATTCACACTA 635
   |||
Db 2819 CCAAGGCTACACATCAAAGAAATGGAATAAAATAGTGGAAATTAGAAGATTCACACTA 2878

QY 636 GCCTATCAAAAATCTTTGGATACAGTTTCATTTGTGAAAGAGCAAGGGAACCTTCAAAAAG 695
   |||
Db 2879 GCCTATCAAAAATCTTTGGATACAGTTTCATTTGTGAAAGAGCAAGGGAACCTTCAAAAAG 2938

QY 696 ATCACTGTGAACAAACGTCAGGAAATGGAACAAATGGAACAAATGGAAGGATTTGTGTACTGA 755
   |||
```

Db 2939 ATCACTGTGAACAACGTCACAGAAAAATGGAACAAAATGGAACAAAATGGAAGATTTTGTGTACTGA 2998  
Qy 756 AAAAGAAACTGTGAGAACAAAA 778  
Db 2999 AAAAGAAACTGTGAGAACAAAA 3021

RESULT 15

US-09-834-759-491  
; Sequence 491, Application US/09834759  
; Publication No. US20020085998A1  
; GENERAL INFORMATION:  
; APPLICANT: Jiang, Yuqiu  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Hepler, William T.  
; APPLICANT: Henderson, Robert A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER  
; FILE REFERENCE: 210121.470C9  
; CURRENT APPLICATION NUMBER: US/09/834,759  
; CURRENT FILING DATE: 2001-04-13  
; NUMBER OF SEQ ID NOS: 547  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 491  
; LENGTH: 2232  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-834-759-491

Query Match 93.2%; Score 725.8; DB 9; Length 2232;  
Best Local Similarity 98.3%; Pred No. 2.9e-171;  
Matches 730; Conservative 3; Mismatches 10; Indels 0; Gaps 0;  
Qy 36 CCATTAGCCTGCCATTGAAATGCAAAAGTCGTGTTCCAAATAAAGCCTTGGAATTTGAAGA 95  
Db 1373 CCTTCGAGCCTGCCATTGAAATGCAAAAGTCGTGTTCCAAATAAAGCCTTGGAATTTGAAGA 1432  
Qy 96 ATGAACAAACATTTGAGAGCAGATGAGATACTCCCATCAGAAATCCAAACAAAGGACTATG 155  
Db 1433 ATGAACAAACATTTGAGAGCAGATGAGATACTCCCATCAGAAATCCAAACAAAGGACTATG 1492  
Qy 156 AAGAAAGTTCTTGGGATCTGAGAGTCCTGTGAGACTGTTTCACAGAGGATGTGTGT 215  
Db 1493 AAGAAAGTTCTTGGGATCTGAGAGTCCTGTGAGACTGTTTCACAGAGGATGTGTGT 1552  
Qy 216 TACCAAGGCTACATCAAAAAGAAATAGATAAAATAAATGGAATAATAGAAAGGTCTC 275  
Db 1553 TACCAAGGCTRCATCAAAAAGAAATAGATAAAATAAATGGAATAATAGAAAGGTCTC 1612  
Qy 276 CTGTTAAGATGGTCTTCTGAGGCTTAAGCGGATGAAAGTTCTATTCGAAGTAAAG 335  
Db 1613 CTGATAATGATGGTCTTCTGAGGCTCCCTCGAGAAATGAAAGTTCTATTCGAAGTAAAG 1672  
Qy 336 CCTTAGAATTGATGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 395  
Db 1673 CCTTAGAATTGATGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAGCCATCTGCCT 1732  
Qy 396 TCGAGCCTGCCATTGAAATGCAAAAAGTCGTGTTCCAAATAAAGCCTTGGAATTTGAAGAATG 455  
Db 1733 TCGAGCCTGCCATTGAAATGCAAAAAGTCGTGTTCCAAATAAAGCCTTGGAATTTGAAGAATG 1792  
Qy 456 AACAAACATTTGAGAGCAGATGAGATGTTCCCTTCAGATCAAAACAAAGAGGTTGAAG 515  
Db 1793 AACAAACATTTGAGAGCAGATGAGATGTTCCCTTCAGATCAAAACAAAGAGGTTGAAG 1852  
Qy 516 AAAATTTCTGGGATCTGAGAGTCCTCGTGAGACTGTTTCACAGAGGATGTGTGTAC 575  
Db 1853 AAAATTTCTGGGATCTGAGAGTCCTCGTGAGACTGTTTCACAGAGGATGTGTGTAC 1912  
Qy 576 CCAAGGCTACATCAAAAAGAAATGGATATAAAATAAGTGGAAAAATTAGAAGATTCAACTA 635

Db 1913 CCAAGGCTACACATCAAAAAGAAATGGATAAAATAAGTGGAAAAATTAAGAGATTCAACTA 1972  
Qy 636 GCCTATCAAAAATCTTGGATACAGTTCAATCTTGTGAAAGAGCAAGGAACTTCAAAAAG 695  
Db 1973 GCCTATCAAAAATCTTGGATACAGTTCAATCTTGTGAAAGAGCAAGGAACTTCAAAAAG 2032  
Qy 696 ATCACTGTGAACAACGTCACAGAAAAATGGAACAAAATGGAATAATGGAAGATTTTGTGTACTGA 755  
Db 2033 ATCACTGTGAACAACGTCACAGAAAAATGGAACAAAATGGAATAATGGAAGATTTTGTGTACTGA 2092  
Qy 756 AAAAGAAACTGTGAGAACAAAA 778  
Db 2093 AAAAGAAACTGTGAGAACAAAA 2115

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Job time : 767 secs